

**In the Claims:**

Please cancel claims 17,21-23, amend claims 18-20,24,25 and 27-32 and add new claims 33-35.

17. Cancelled

18.(Currently amended) The imaging system as claimed in claim ~~17~~ 33, wherein the aspherical cylinder lens geometry or the aspherical cylinder lens-like geometry is formed by an elliptical, hyperbolic or parabolic cylinder section.

19.(Currently amended) The imaging system as claimed in claim ~~17~~ 33, wherein there are at least two lens elements, on one of the lens elements there being a first optically functional interface and on the other of the lens elements there being a second optically functional interface.

20.(Currently amended) The imaging system as claimed in claim ~~19~~ 33, wherein the at least two lens elements each comprise one of the first or second optically functional interfaces and a planar entry or an exit surface opposite the interfaces.

21.Cancelled

22.Cancelled

23.Cancelled

24.(Currently amended) The imaging system as claimed in claim ~~21~~ 33, wherein the at least one third optically functional interface is concave.

25.(Currently amended) The imaging system as claimed in claim ~~21~~ 33, wherein the at least one third optically functional interface has a spherical or aspherical cylinder lens geometry or cylinder lens-like geometry.

26. (Previously presented) The imaging system as claimed in claim 25, wherein the aspherical cylinder lens geometry or the cylinder lens-like geometry of the at least one third optically functional interface is formed by an elliptical, hyperbolic or parabolic cylinder section.

27. (Currently amended) The imaging system as claimed in claim ~~21~~ 33, wherein the are at least one lens element and the at least one correction element are on a common carrier.

28. (Currently amended) The imaging system as claimed in claim ~~17~~ 33, wherein the at least one lens elements are arrays or linear lines of identical lens elements.

29. (Currently amended) The imaging system as claimed in claim ~~21~~ 33, wherein the at least one correction elements are arrays or linear lines of identical correction elements.

30. (Currently amended) An objective lens comprising an imaging system as claimed in claim ~~17~~ 33.

31. (Currently amended) A sensor comprising an imaging system as claimed in claim ~~17~~ 33.

32. (Currently amended) A camera comprising an imaging system as claimed in claim ~~17~~ 33.

33. (New) An imaging system for imaging electromagnetic radiation in an optical spectral range, comprising  
at least one lens element and at least one first and one second optical functional interfaces through which the electromagnetic radiation can pass,  
the at least one first and the at least one second optical functional interfaces having, at least in sections, a cylinder lens geometry or a cylinder lens-like geometry,

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the at least first and the at least one second optical functional interfaces each have a cylinder axis, the cylinder axis of the at least one first optical functional interface to the cylinder axis of the at least one second optical functional interface being aligned substantially perpendicular to one another,

at least one additional correction element with two third optically functional interfaces opposite one another, having, at least in sections, a cylinder lens geometry or a cylinder lens-like geometry so that the two third optically functional interfaces each have a cylinder axis with the cylinder axes of the two third optically functional interfaces being aligned substantially perpendicular to one another and at an angle of substantially  $45^\circ$  to the cylinder axes of the at least one first and the at least one second optically functional interfaces.

34.(New) The imaging system as claimed in claim 33, wherein the at least one first, or the at least one second optical functional interface, or both, have an aspherical cylinder lens geometry, or an aspherical cylinder lens-like geometry.

35.(New) The imaging system as claimed in claim 19, wherein the at least one additional correction element is positioned between the two lens elements.

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